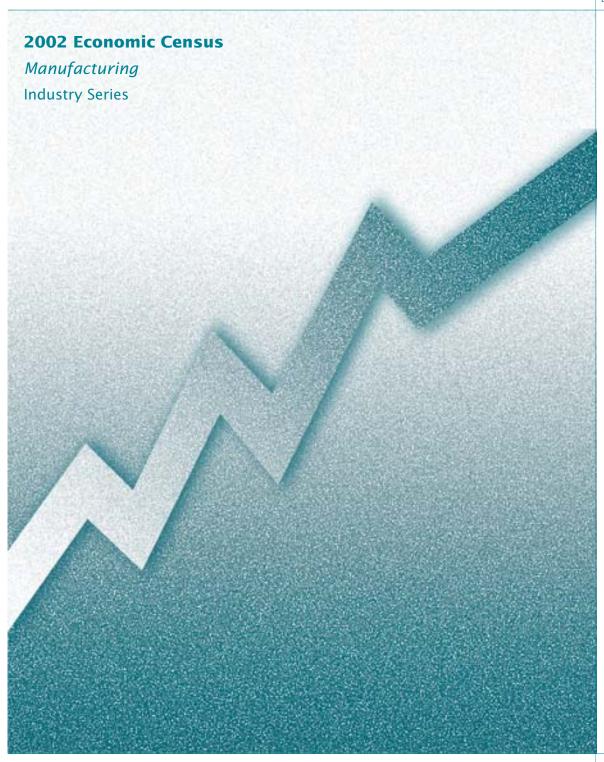
Petroleum Lubricating Oil and Grease Manufacturing: 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All estab- lish- ments ³			Pro	duction work	kers		Total	Total	Total capital
Industry and year ¹	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials	shipments	expendi- tures (\$1,000)
324191, Petroleum lubricating oil and											
grease manufacturing	354	407	10 385	531 970	5 570	11 237	229 556	2 529 341	3 980 835	6 509 409	r102 841
2001	N	N	9 900	447 586	5 207	10 225	177 358	2 036 864	3 855 697	5 889 631	76 679
2000	N	N	10 344	468 197	5 432	10 958	187 582	2 174 632	3 856 735	6 024 017	94 923
1999	N	N	10 850	469 666	5 806	12 145	190 135	2 319 788	3 528 130	5 806 191	85 946
1998	N	N	11 542	471 421	6 228	12 724	208 437	2 565 652	4 010 313	6 616 098	105 858
1997	344	413	11 242	448 857	5 966	11 923	192 066	2 068 913	3 973 546	6 070 406	105 229

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
324191, Petroleum lubricating oil and grease manufacturing												
United States. Florida Kansas Louisiana Massachusetts Pennsylvania Texas Wisconsin	5 6 - 1 1	407 13 6 18 5 27 51 7	131 3 3 9 2 14 14 4	10 385 202 265 1 021 165 918 1 046 145	531 970 7 712 9 604 59 046 8 685 43 822 50 479 7 894	5 570 121 68 665 81 576 618 58	11 237 278 136 1 238 175 1 208 1 265 115	229 556 2 939 2 254 34 194 2 859 20 720 24 616 1 624	2 529 341 24 608 37 896 282 352 22 270 256 292 400 912 22 434	36 144 705 577 20 617 329 696	6 509 409 63 541 73 445 989 302 42 575 588 451 825 471 43 620	r102 841 r1 296 r1 119 r7 149 r366 r12 047 r16 890 r1 062

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.
³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
324191, Petroleum lubricating oil and grease manufacturing	
Companies ¹ number.	354
All establishments ²	407 276 110 21
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	10 385 657 760 531 970 125 790
Production workers, average for year	5 570 5 533 5 606 5 614 5 509
Production worker hours	11 237 229 556
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	3 980 835 3 700 707 155 030 37 161 24 968 62 969
Quantity of electricity purchased for heat and power	421 366 D
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	6 509 409 5 937 945 373 313 198 151 187 498 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	94 6 485 436 5 937 945 547 491
Coverage ratiopercent	92
Value added\$1,000.	2 529 341
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	558 996 303 444 69 989 185 563
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	573 077 309 098 65 102 198 877
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use. \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'2 052 234 '102 841 '11 461 '91 380 '4 170 '5 862 '81 348 '23 731 '2 131 344
Depreciation charges during year\$1,000	¹ 99 718
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	58 345 28 493 29 852
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ³ \$1,000. All other expenses ⁴ \$1,000.	219 434 70 27 362 4 562 2 249 1 743 8 772 1 812 9 778 3 251 16 226 144 195

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	rs		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
324191, Petroleum lubricating oil and grease manufacturing											
All establishments Establishments with —	1	407	10 385	531 970	5 570	11 237	229 556	2 529 341	3 980 835	6 509 409	^r 102 841
1 to 4 employees	7 3 3	151 59 66	314 406 929	13 691 20 124 46 238	181 211 438	322 444 923	4 965 6 687 14 696	42 232 83 227 130 838	70 429 122 945 214 259	112 365 206 930 346 665	D '4 539 '5 679
20 to 49 employees	1	67 43 18	2 029 3 053 2 471	106 786 152 966 122 894	989 1 779 1 162	2 039 3 791 2 222	35 367 74 514 48 192	426 588 956 932 772 669	714 997 1 295 234 1 049 169	1 134 170 2 243 741 1 823 713	r22 674 r33 803 r32 670
250 to 499 employees	_	3	1 183	69 271	810	1 496	45 135	116 855	513 802	641 825	D -
1,000 to 2,499 employees	_		_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _
Administrative records ⁴	9	140	571	27 433	331	633	9 029	84 186	118 376	201 053	^r 4 659

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All estab- lish- ments ¹	All employees		Pr	oduction work	ers		Total	Total	Total capital
product class code			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	Total value of shipments (\$1,000)	expendi- tures (\$1,000)
324191	Petroleum lubricating oil and grease manufacturing	407	10 385	531 970	5 570	11 237	229 556	2 529 341	3 980 835	6 509 409	^r 102 841
3241910	Petroleum lubricating oils and greases, made from refined petroleum	407	10 385	531 970	5 570	11 237	229 556	2 529 341	3 980 835	6 509 409	r102 841

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
324191	Petroleum lubricating oil and grease manufacturing	N N	X	X	6 485 436 5 991 493	
3241910	Petroleum lubricating oils and greases, made from refined petroleum	N N	X	X	6 485 436 5 991 493	
32419101	Petroleum lubricating oils and greases, made from refined petroleum	N N	X	X	5 954 189 4 960 840	
3241910111	Lubricating oils (including hydraulic fluids, quenching and cutting oils, transformer oils, liquid rust preventives, etc.), made from refined petroleum ¹	185	X	s	5 208 602	
3241910121	1997. Lubricating greases, made from refined petroleum ² mil bbl. 2002. 1997. 1997.	157 51 48	X X X	⁹ 50.6 S S	4 563 073 745 587 397 767	
3241910Y	Petroleum lubricating oils and greases, made from refined petroleum, nsk, total	N N	X	X	531 247 1 030 653	
3241910YWW	Petroleum lubricating oils and greases, made from refined petroleum, nsk, for nonadministrative-record establishments	N N	x	x	336 218	
3241910YWY	Petroleum lubricating oils and greases, made from refined petroleum, nsk, for administrative-record establishments	N N N	X X	X X X	558 816 195 029 471 837	

¹This product code is primary to more than one industry. See industry 324110, product code 324110G111. ²This product code is primary to more than one industry. See industry 324110, product code 324110G121.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
324191	Petroleum lubricating oil and grease manufacturing		
00900001	Total materials	X	3 700 707
21111103	Domestic crude petroleum, including lease condensate	X S S	3 692 859 148 671 143 352
00999830	Foreign crude petroleum, including lease condensate	D D	D D
21111207	Propane (C ₃) (80 percent purity or more)	D D	D
32500017	Additives (including antioxidants, antiknock compounds, and inhibitors)	P1.0 S	210 031 43 890
32500019	Other additives (including soaps and detergents) 1997 1997 1997	S S	122 647 437 372
31100013	Animal and vegetable oils mil lb2002.	D 214.7	D 129 591
32518107	1997 Sodium hydroxide (caustic soda)(100 percent NaOH)	214.7 S 929.6	1 528 1 528 10 421
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄)	429.6 D S	D 4 832
33240000	Metal containers	X	44 978 76 462
32610029	Plastics containers. 1997	X X N	76 462 114 091 N
32220015	Paper and paperboard containers	XXX	43 759 58 150
32221400	Fiber cans (bodies with combinations of fiber and other materials (foil, plastics, etc.) with metal ends)	X	3 048
32410007	Cost of materials received from petroleum refineries and lube manufacturers	X	27 947 1 765 500
00970099	All other materials and components, parts, containers, and supplies	S	1 362 066 745 161
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	636 512 379 835 762 221

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.